

**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
 (Chapter II of the Patent Cooperation Treaty)  
 (PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>55095PCT KMC:PFB</b>	<b>FOR FURTHER ACTION</b>	See Form PCT/IPEA/416
International application No. <b>PCT/AU2004/001766</b>	International filing date (day/month/year) <b>16 December 2004</b>	Priority date (day/month/year) <b>18 December 2003</b>
International Patent Classification (IPC) or national classification and IPC  Int. Cl.  <b>H02K 1/14 (2006.01)      H02K 1/02 (2006.01)</b>		
Applicant <b>INTELLIGENT ELECTRIC MOTOR SOLUTIONS PTY LTD et al</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 12 sheets, as follows:

☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☒ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or table related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand <b>8 September 2005</b>	Date of completion of this report <b>18 April 2006</b>
Name and mailing address of the IPEA/AU <b>AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929</b>	Authorized Officer  <b>MANO RAMACHANDRAN</b> Telephone No. (02) 6283 2166

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001766

**Box No. I Basis of the report**

## 1. With regard to the language, this report is based on:

- ☒ The international application in the language in which it was filed
- ☐ A translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3(a) and 23.1 (b))
- ☐ publication of the international application (under Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- ☐ the international application as originally filed/furnished
- ☒ the description:  
     pages 1, 5, 6 as originally filed/furnished  
     pages\* 2, 3, 3/1 received by this Authority on 7 December 2005 with the letter of 7 December 2005.  
     pages\* 4, 7 received by this Authority on 3 April 2006 with the letter of 3 April 2006.
- ☒ the claims:  
     pages as originally filed/furnished  
     pages\* as amended (together with any statement) under Article 19  
     pages\* 8, 9 received by this Authority on 7 December 2005 with the letter of 7 December 2005.  
     pages\* received by this Authority on with the letter of
- ☒ the drawings:  
     pages as originally filed/furnished  
     pages\* 1-5 received by this Authority on 3 April 2006 with the letter of 3 April 2006.  
     pages\* received by this Authority on with the letter of
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to the sequence listing (*specify*):

4. ☒ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☒ the description, pages 4, 7 filed on 3 April 2006.
- ☐ the claims, Nos.
- ☒ the drawing sheet 5 filed on 3 April 2006.
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to the sequence listing (*specify*):

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/AU2004/001766

**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims 4	YES
	Claims 1-3,5-10	NO
Inventive step (IS)	Claims	YES
	Claims 1-10	NO
Industrial applicability (IA)	Claims 1-10	YES
	Claims	NO

## 2. Citations and explanations (Rule 70.7)

D1: WO 2003/075432 A2

D2: JP 2001-157390 A1

D3: JP 10-014145 A

**NOVELTY (N) claims 1-3, 5-10:**

Citation D1 discloses all of the features of the above claims. Referring to this citation: an electrical machine including a stator frame formed of steel laminations [page 4, paragraph 4, lines 2, 3, fig 13, item 612], pole pieces having non-laminar construction formed of bonded iron [page 8, paragraph 3, lines 3, 4, page 5, paragraph 1, lines 2-6, fig 13, item 618] attached to the stator frame [page 8, paragraph 6, lines 1, 2], stator frame protects the pole pieces [fig 13], stator coils wound substantially about the pole pieces of non-laminar construction [fig 13], are as claimed in claims 1-3, 5-10.

**INVENTIVE STEP (IS) claims 1-10:**

Claims 1-3, 5-10: As above.

Citation D2 discloses all of the features of claims 1-3, 5-10 except that each of the pole pieces of the citation is formed of laminar and non-laminar construction instead of non-laminar construction. This difference between the claimed invention and the disclosure of the citation merely amount to common general knowledge and does not involve an inventive step.

Citation D3 discloses a stator frame with a non-circular internal profile as in claim 4.

Hence when the disclosure of citation D1 or D2 is combined with that of citation D3 as would be obvious to a person skilled in the art disclose all of the features of claim 4.

Hence the invention claimed in claims 1-10 lacks an inventive step.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

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**PCT/AU2004/001766****Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of Box I:

Fig 5 and its description in page 4, lines 26, 27, page 7, lines 1-10 is not included in the originally filed specification.